Ju

Spennymoor Urban District Council.

MEDICAL OFFICER'S REPORT, 1906.





THE DISTRICT.—The area comprises 3388 acres, and is partly urban and partly rural in character. It is bounded on the *north* by the River Wear, on the *south* by the Railway from Merrington Lane to Binchester Colliery, on the *east* by the Darlington Road, and on the *west* by the Highway from the River Wear to Binchester Railway.

INDUSTRIES.—The chief is Coal Mining. The Tudhoe Ironworks have a blast furnace in operation and will shortly have another. They are also building a new set of coke ovens. There are foundries at Merrington Lane and Tudhoe Grange, brickworks at Tudhoe Colliery and MerringtonLane, and a sawmill at Tudhoe.

POPULATION.—According to the Census of 1901, the population was 16,661. The number of inhabited houses 3204, and the average number of inmates 5. The number of dwelling houses erected since then is 109, and the population to the middle of 1906 is estimated at 16,814. I am of opinion that this estimate is below the actual numbers.

BIRTHS.

There were 635 births registered during 1906, an increase of 14 on 1905, this gives a birth rate of 37.7 per 1000. For comparison I give the following figures:—1905, 37; 1906, 37.7; 10 years average 38.3; County average 35.2. You will thus see in your district there has not been the serious diminution of births that has been called attention to in many parts of the Country.

DEATHS.

There were 291 deaths registered as occurring in the district to these have to be added 16 deaths of residents in the district who died in public institutions outside the district, giving a total of 307 and a death rate of 18.2 per 1000. This is a decrease of 28 on the year 1905 and a reduction of 2.9 on the death rate. As in 1905 the larger number of deaths occurred from Diarrhoea, viz:—48 (an increase of 10 on 1905), Bronchitis and Pneumonia 34 and Phthisis 22 (an increase of 13 on 1905.)

Diarrhoea was again epidemic in August, September and October, the deaths with few exceptions occurring in young children.

Bronchitis and Pneumonia.—There were 34 deaths from these diseases, a decrease of 30 from 1905 when there were 64; this no doubt is largely due to the relative mildness of the months October, November, and December, in 1906.

Phthisis.—There were 22 deaths from Phthisis in 1906 as opposed to 9 in 1905, a very marked increase which I cannot account for. An exceptional thing about these deaths is that 13 (or more than half) occurred in persons above 35 years of age.

As in former years the death rate in Tudhoe Ward, 15.6, is less than that in Spennymoor Ward 20.6, and Ferryhill Ward 20.3. This no doubt is largely due to the more crowded condition with the smaller proportion of air space in the latter two wards.

UNCERTIFIED DEATHS.

The number of uncertified deaths was 49, of which 16 occurred in children under 1 year of age. This corresponds to 16.8% of the total death rate and about 16% of the infant mortality. The large majority of these deaths occurred in the practice of Mr Thompson.

INFANTILE MORTALITY.

The deaths of infants under 1 year of age numbered 99, giving an infant mortality rate of 155 per 1000 registered births, of these 31 or nearly 33% were due to diarrhoeal diseases and 15 to premature birth. I would specially call your attention to this large number of deaths from diarrhoea which are mostly preventable, as I think this is the key to our present and continued high death rate. I am convinced that there will be no great diminution in the general death rate until this question of infant mortality is dealt with in an energetic manner. There is no question that greater care in the feeding and management of young babies would prevent the great majority of these deaths from diarrhoea. Other contributory factors are carelessness in the handling and storage of milk and very probably the contamination of the water in the Spennymoor Reservoir. There is some cause for congratulation in the fact that the infant mortality rate in 1906, viz:—155 is 70 less than that of 1905 in spite of the large mortality from Diarrhoea. It is in fact the lowest in the last 10 years excepting 1903 (when it was 131) but this was a wet cold summer. however in my opinion much higher than it should and could be. For information and comparison I append the following statistics:

Infantile mortality	1905	1906
Spennymoor	225	¹ 55
Durham County	159	1 57
England and Wales	128	133

ZYMOTIC DISEASES.

The deaths from Zymotic diseases were Whooping Cough 7, Diphtheria 2, Croup 2, Influenza 1, Enteric Fever 2, Diarrhoea 48, total 62. This gives a Zymotic death rate of 3.6 per 1000 which is the same as in 1905. This compares unfavourably with the County Zymotic death rate which is 2.4. If as is usually done the Zymotic death rate is taken as the truest test of the sanitary condition of a district Spennymoor has little to be proud of.

INQUESTS.

There were 11 inquests held during the year and the following verdicts were returned:—Accidental death 7, Suicide 2, Poisoning 1, natural causes 1. With a population including so many pitmen a large number of accidental deaths is almost inevitable.

INFECTIOUS DISEASES (NOTIFICATION) ACT.

65 cases of Infectious diseases were notified during the year viz:—Diphtheria 21, Erysipelas 11, Scarlet Fever 19, Enteric Fever 13, Puerperal Fever 1. One case of Enteric Fever appeared in the death returns which had not been notified. This is an increase of 8 cases on the returns of 1905. The number of notifications for the last 5 years are as follows:—1906, 65, 1905, 57, 1904 105, 1903, 120, 1901, 169.

With the exception of a slight rise in 1906 the number of notifications has steadily declined. This decrease may I think be very fairly attributed to your Isolation Hospital. When one finds how difficult it is to make the friends of patients realize the importance of isolating mild cases one is convinced that without an isolation hospital it would be impossible to prevent the spread of infectious diseases.

The cases were distributed as follows:—

]	Diphtheria.	Scarlet F.	Erysipelas.	Enteric.	Total.
Spennymoor Ward	1 13	14	3	6	36
Ferryhill Ward	2	2	4	3	ΙΙ
Tudhoe Ward	6	3	4	4	17
Urban District	2 I	19	ı i	13	64

It will be seen that more cases were notified in Spennymoor Ward than in the other two Wards put together.

Diphtheria.—21 cases were notified, 13 of these occurring in Spennymoor Ward. The cases were distributed throughout the year and in most cases no cause could be found. A child notified in October as suffering from Diphtheria had been allowed to attend school for a week before the notification was received. Inspector removed him from school and the father was asked to attend before the Council and repremanded for allowing him to go to school whilst in an infectious state. Two cases appeared shortly after in children attending this school. An epidemic of pseudo membranous throats occurred in October. Several swabs were taken and sent to Newcastle for examination but in most cases a negative result was obtained. As is often the case several cases of diphtheria followed this epidemic. I am pleased to report that the Medical Practitioners of the district are making more frequent use of the facilities afforded by the Durham County Council for the examination of suspected material as an aid to diagnosis in cases of Diphtheria, Phthisis and Enteric Fever. This not only tends to increased accuracy in diagnosis but also

tends to prevent uusuitable cases being sent to the hospital, thus saving expense to the Council.

There were 2 deaths from Diphtheria but both occurred outside the hospital.

Scarlet Fever.—19 cases were notified. School infection appeared to be the cause in 2 groups of cases, one group in the National Schools, High Street, the other in the Higher Grade School, Weardale Street. In two cases 2 members of a family were infected. In all the other cases no connection could be traced. Scarlet Fever now usually runs such a mild course that I think some cases are not recognized, and fail to come under medical observations. No deaths occurred from this disease. am afraid that efforts to trace connection between cases of this disease often fail, owing to mild cases being unrecognised. There is little excuse for this now that the County Council furnish every facility for medical practitioners to verify their doubtful cases. is a curious fact that all the 21 cases occurred in the practices of 3 medical men of the district and that those three were the only ones who sent swabs from suspected cases for examination. conceivable that 21 cases should occur in the practices of three men and none in those of the others, but it is scarcely probable. would point out that 3 cases of Croup appeared in the death returns. In 99 cases out of a hundred fatal croup is diphtheria and yet as far as I can ascertain no specimen from either throat was taken for examination nor were the cases notified. urge the medical practitioners of the district to use the facilities for increased accuracy of diagnosis provided by the County Council for all suspicious cases.

Enteric Fever. —13 cases of this disease were notified which is 2 less than in 1905. Considering that Enteric Fever was epidemic in the autumn in several of the surrounding districts, it is a matter for congratulation that the cases were so few. The cause of these cases could not be ascertained. There was no connection between them as regards milk supply. They could scarcely have been due to water or we should have had more of them and they would not have been spread over so long a period. I pointed out last year that flies were often responsible for the spread of this disease. some instances it may have been so but some occurred after the fly season. In one or two cases I ascertained the patients had partaken of shell fish shortly before their illness, but whether it was caused by this it is difficult to state with any accuracy. most of the cases this source of infection was negatived. cases proved fatal, one in a patient about 48 hours after her removal to hospital, and was probably due to perforation. other death occurred in a patient not notified.

Erysipelas.—11 cases were notified. In no case could one case be traced to another. As the infection in the disease is so

slight I see no reason for keeping it on the list of notifiable diseases.

Of the 21 cases of Diphtheria 13 were removed to the hospital and 8 isolated at home. Of the 19 cases of Scarlet Fever 17 were removed to the hospital. Of the 13 cases of Enteric Fever 12 were removed to the hospital, the other one was a very doubtful case in a child, the practitioner in charge of the case afterwards thought it was not a case of Enteric Fever, and it was not deemed advisable to remove it.

Puerperal Fever.—One case was notified. The case was visited and the Nurse in attendance warned not to attend any other case for a month. It gave rise to no other case.

ISOLATION HOSPITAL.

On January 1st, there were in hospital 1 case of Enteric and 1 of Scarlet Fever. During the year 17 cases of Scarlet Fever, 13 of Diphtheria, and 11 cases of Enteric were admitted. 15 cases of Scarlet Fever, 11 cases of Diphtheria, 9 cases of Enteric Fever were discharged cured. There were remaining in the hospital on December 31st, 3 cases of Scarlet Fever, 2 of Diphtheria and 1 of Enteric Fever. One case of Enteric Fever proved fatal. One case of Enteric Fever occurred in a Nurse engaged at the hospital. She was removed to Hartlepool early in the disease.

Scarlet Fever.—All the cases were mild and gave rise to no anxiety.

Diphtheria.—One case a laryngeal one was severe, and was in a critical condition for 2 or 3 days. The other cases were mostly of a mild type. No death occurred in the hospital from this disease.

Enteric Fever.—One case which was not notified until the third week of illness proved fatal. He was in a critical condition when seen, but on account of the surroundings it was thought advisable to remove him. In future when cases are notified so late in the disease I think it would be advisable not to remove them. Three other of the cases were severe and but for the skilled nursing which your hospital affords would I think have proved fatal. The others were mostly mild cases.

The nursing has on the whole been very satisfactorily accomplished, the nursing staff having spared no pains or trouble in the interes s of the patients, and are I think to be congratulated on the result of their year's work.

PRECAUTIONARY MEASURES.

The means taken to prevent the spread of Infectious Diseases are the adoption of the Infectious Diseases (Notification) Act and the Infectious Diseases (Prevention) Act, an Isolation Hospital

equipped with disinfecting apparatus, ambulance, &c., and nurses in residence. Arrangements have also been made for the Isolation of Small-pox cases in a Joint Hospital at Binchester Whins.

GENERAL SANITATION.

Spennymoor Ward.—The sewage is treated at the outfall near Ox-Close Farm. These works are not able to deal with the whole of the sewage.

Ferryhill and Tudhoe Ward.—At present there are no works for dealing with the sewage.

The whole question of the treatment of the sewage of the district has had the earnest consideration of the Council for some time past. The Council have engaged the services of a consulting engineer, Mr Murphy, of Morpeth, to prepare a scheme of sewerage and sewage disposal for the whole of the district, with plans, specifications, &c. Acting on his advice it is proposed to deal with the question in three sections. It is proposed to deal with the first section, comprising Tudhoe Colliery and part of Tudhoe Village as soon as the necessary arrangements can be made. My negotiations for securing suitable land near the Croxdale end of Chair Lane suitable for the outfall works are now in progress and it is hoped that during the coming year the work for this section will be commenced.

The pollution of some of the tributaries of the River Wear by the sewage from this district, has been the cause of several representations from the Officers of the County Council. It is hoped that this pollution is now in a fair way to be remedied.

Elementary Schools.—Flushing closets have been provided for all departments of the Rosa Street Council Schools and Upper Church Street Council Schools during the year 1906. Flushing closets were already provided at the National Schools, Mount Pleasant, the Council Schools, Tudhoe Grange, and at St. Mary's Home, Tudhoe.

The other Schools have ashclosets or privies and ashpits.

An application was made for the sewer to be carried to the Council Schools at Tudhoe Colliery, but as the sewerage of this district is shortly to be dealt with it was deemed advisable to leave it over for the present.

It is to be hoped that the County Council will soon see their way to provide flushing closets for the Elementary Schools in the district as ashclosets and privies are most unsuitable for schools where the ashes are not nearly sufficient to absorb the large amount of liquid and solid excrement.

SANITARY WORK.

The following summary supplied by the Sanitary Inspector shows the work accomplished during the year:

Yards repaired or relaid	IIO
Midden privies converted into ash closets or water closets	255
Floors in houses relaid	42
Defective drains remedied	62
Schools disinfected on special occasions	2

All the elementary schools were disinfected at the end of the year.

The work of improving the sanitary condition of the district has been steadily going on, but one cannot but regret that in many cases the occupiers of houses do not take more trouble to keep their premises in a more sanitary condition. It is distinctly disappointing to find as one frequently does that after the yards and outbuildings have been put into a sanitary state by the owners that the gullies have been allowed to get blocked and remain so by the tenants. It is very disappointing to find that after the great amount of sanitary work that has been done in the district that the Vital Statistics come out so badly, in 1905 they were the worst in the whole County of Durham, they show however some improvement in 1906. I am convinced that we shall not get much improvement in this respect until the question of Infant Mortality is taken seriously in hand, our large Infant Mortality rate is neutralizing the effect of the sanitary improvements on the death rate.

DISPOSAL OF REFUSE.

Some few years back large open ashpits and midden privies were almost universal in the district, during the last few years the council have taken this matter in hand and a large number of ash closets have been substituted for these, so that now a large majority of houses have ash closets. This I think is a great improvement as it necessitates more frequent scavenging. The ash closets are usually emptied weekly.

The removal of refuse is let out by the Council to Contractors who do the work at night. On the whole it is satisfactorily done but the work requires constant supervision.

HOUSING OF THE WORKING CLASSES.

As in most of the mining districts in the County there is an insufficiency of houses in your district and this necessitates a certain amount of overcrowding. I am pleased to report however that 53 new houses have been built during the year and others are still in progress. The building of a large number of houses at Dean Bank has also tended to reduce the pressure in this district.

Seven cases of overcrowding have been dealt with and 2 convictions obtained. It is unfortunate that the legal steps necessary to abate overcrowding are so slow, often occupying a month or two, and when the people are ejected they often get into another house and have to be dealt with again.

DAIRIES AND COWSHEDS.

All the dairies and cowsheds in the district have been inspected by me or your Sanitary Inspector. Structural defects have in a few cases been pointed out and remedied. The cobble floors however in the Tudhoe district have not yet been replaced. As I remarked in my last report suitable places for storing the milk are conspicious by their absence. The usual excuse being that the milk is sold directly it is milked.

The whole question of the milk supply of the country in my opinion requires to be seriously dealt with, as it is I believe answerable for a large amount of disease. There is no power to prevent the milk from tuberculous cows being sold for domestic use. In most of the cowsheds I visited the cows were in a very filthy condition and little if any trouble seemed to be taken to keep them in a cleanly state, I would strongly urge on all consumers of milk to see that it is invariably boiled before use, as boiling destroys nearly all the injurious organisms it may contain.

SLAUGHTER HOUSES.

Inspection has been made of all the slaughter-houses in the district, as a rule they are well kept and the byelaws as to frequent removal of refuse are carried out. As I pointed out in my last report however many of them are in too close proximity to dwelling houses and there is no doubt that the provision of a public slaughter house would be a great improvement.

WATER SUPPLY.

Is from the Weardale and Consett Co's. Reservoirs, and is a pure water of excellent quality for domestic purposes, nearly half of Spennymoor Ward is however supplied from a small reservoir just above Stratton Street, this reservoir is uncovered and in too close proximity to streets and dwelling houses, the result being that in windy weather the surface of the water is covered with a scum of dust which settles down and pollutes the water. Acting on the advice of the Local Government Board Inspector, the Council were for some months in correspondence with the Water Company trying to get this state of affairs remedied, when in the end the Water Company refused to do anything in the matter, the Council wrote to the Local Government Board asking them for advice, this the Local Government Board refused to give which was distinctly disappointing.

The Council have since taken samples from the reservoir and from a tap in a dwelling house supplied from the reservoir, and the following is a copy of the analyses by the County Analyst.

Sample A.—(Reservoir.)

Colour and appearance in 2ft. tube Faint Greenish, not clear Odour when heated to 100°F Musty

Chlorine as Chloride

Nitrogen as Nitrates

Albuminoid Ammonia

Oxygen Absorption

Injurious Metals

Chlorine as Chloride

'9506

'0173

'0064

'0014

'0548

none

3'8500

Microscopical Examination.—Noticeable deposit from half gallon consisting of mineral matter, decomposing vegetable matter, fungus growths, moving organisms, linen fibres, &c.—

Sample B.—(House Tap.)

Colour and appearance in 2ft. tube	Greenish, not clear
Odour when heated to 100°F	Musty
	Grains per gallon.
Chlorine as Chloride	1.0182
Nitrogen as Nitrates	none
Ammonia	none
Albuminoid Ammonia	.0014
Oxygen Absorption	.0372
Injurious Metals	none
Total solid matter dried at 220°F	4.200

Microscopical Examination.—Noticeable deposit from half gallon consisting of mineral matter, decomposing vegetable matter, moving organisms, fungus growths, linen and woollen fibres.

Observations.—For all sanitary purposes the two may be taken as one, the actual chemical composition of these samples is quite satisfactory, but the results of the microscopical examination prove one of two things either the water is not a filtered water, or if has been filtered it has subsequently been contaminated by contact either with unfiltered surface water or atmospheric dust, in any case such contamination is objectionable on the ground that such water or dust is not free from domestic refuse.

(Signed) W. F. Keating Stock.

When a sample was taken before the Water Company objected to it on the ground that it was taken from the reservoir and was not of the same quality as supplied to the houses. This analysis proves that the water as supplied to the consumer is little if any better than that taken from the reservoir.

Copies of these analyses have been sent to the Weardale and Consett Water Company. They have had the matter examined into and have written to say that it is receiving their attention. I have reason to believe that they are likely soon to take steps to have this contamination prevented.

OUTLYING FARMS (Water Supply.)

The Council on account of the cost likely to be incurred found that they were unable to deal with this matter, they therefore applied to the Local Government Board to invest them with the same powers as a Rural District Council. This the Local Government Board refused to do. I must regret this as the supply to some of the farms though not actually dangerous is not satisfactory. As the cost of furnishing a better supply would in nearly all cases be more than the Council have power to enforce they are practically unable to move in the matter.

As most of the farms are dairy farms sending milk into the district, and the water is used to cleanse the dairy vessels, I cannot help regarding this as a possible source of danger to the health of the district.

Since my last report the W. & C. Water Co's water has been laid on at Pickering's Farm, Tudhoe.

Monk's Close Farm and Butcher Race Cottages are still without a proper water supply.

Ox Close Farm.—In my last annual report I pointed out the great danger of contamination of the water supply of this farm from the surface water running down from the gardens above. An analysis has been made which proved that such contamination actually took place. The owners were communicated with and they have promised to have a brick and cement reservoir built, the walls to extend well into the clay below and reach at least a foot above the ground level. This is now being carried out and will I hope remove all danger of contamination from surface water.

SANITARY REQUIREMENTS.

Back Streets.—Many of the back streets are in a bad condition and require making. I am pleased to report that several of the back streets have been attended to during the year, there are however many more requiring attention. Back Bessemer Terrace to which I called attention in my last report is still in a very unsatisfactory condition. Some of the streets have been made with tar macadam and this with a brick channel on both sides gives to my mind a very satisfactory street which is easily kept clean.

Sewage Disposal.—The Council have now taken this work up in earnest and I hope this matter which has been a cause of anxiety tor some years is now in a fair way to be put on a satisfactory basis.

Lady Sanitary Inspector.—The Infant Mortality rate remains a great blot upon the district. I am of opinion that in a district of this character it should be somewhere between 100 and 120 instead of its present high figure. In my opinion the Council would find the best way to reduce it would be to engage a lady Sanitary Inspector, as I feel convinced that it is largely due to the ignorance and carelessness of the mothers. Whether the Council do so or not I would urge them to give this question of Infant Mortality their serious and careful attention and try in this or some other way to remove this crying evil.

POPULAR HEALTH TALKS.

By kind permission of the County Council Dr. J. Ross, one of their Inspectors of Midwives, came out in October and gave a series of three short health talks. The lectures were very fairly attended and were I believe interesting and instructive. They were inaugurated with the idea of trying to lessen the Infant Mortality rate. Unfortunately it is very difficult to get the class of women who most need these lectures to attend them. Those who did attend them have in many cases assured me they found them very helpful. I should like to express my indebtedness to Dr. Janet Ross for giving the lectures, to the Vicar of St. Andrew's who kindly lent the hall free of charge and helped in other ways, and to the ladies who supported Dr. Ross at the lectures.

FACTORY AND WORKSHOP ACT.

In company with your Sanitary Inspector, I visited all the larger workshops in the district. Overcrowding was found in one case, and sanitary defects in another, these matters have been dealt with. I was much struck with the foulness of the air in some of the workshops due not to the absence of appliances for ventilation, but to the fact that the workers to keep themselves warm had carefully closed them, I cannot but think that if they indulged in a little less warmth and a little more fresh air, they could not fail to be healthier.

In one of the mineral water factories I found no arrangement for rinsing the bottles after they have been washed. The bottles were tipped into a tub of hot water, brushed and then drained, the water in this tub was in a filthy condition as (when one finds that empty bottles are often thrown on the dust heap) it could scarcely fail to be, I cannot help thinking that this is a serious danger to the public health.

Insanitary Property.—You will probably have noticed the absence of reports on insanitary property both in this and my

monthly reports. A little explanation is needed. It is not that I have not given this matter my attention. Under the old system it was customary for the Medical Officer and the Sanitary Inspector both to report on property, and often the same property was dealt with in both reports, I found this led to a great deal of confusion. I have deemed it better when I come across insanitary property to call the Inspector's attention to it and let him report on it. In no instance has he failed to do so. I think this arrangement tends to efficiency.

It is distinctly disappointing that the large number of sanitary improvements which have been effected in the last few years, have not shown a greater effect on the vital statistics. I would urge the Council not to relax their efforts to bring the whole district into a thorough sanitary condition and to improve the water supply. I would specially request them during the coming year, to give their attention to the question of Infant mortality.

Your obedient servant,

W. Mussellwhite.

Vital Statistics of Whole District during 1906 and Previous Years. Name of District—Spennymoor Urban.

1906	years 1896 1905	1905 Averages for	1904	1903	1902	1901	1900	1899	1898	1897	1896		YEAR.		
16814	16697	16786	16758	16729	16701	16672	16665	16665	16665	16665	16665	2	Middle of each Year.	Population	
635	642	621	653	609	656	654	664	667	652	632	620) ಬ	Number		Bir
37.7	38.3	37	33.9	36.4	39.2	39-2	39 8	40	39	37.9	37.0	4	Rate*	•	BIRTHS.
99	19	140	111	80	106	Ot 20	110	149	141	104	118	ಲೀ	Number	Under of I	Tota
155	187	223	169	131	161	233	165	223	216	101	190	6	Rate per 1,000 Births registe'd	Under 1 Year of Age.	IN THE I
291	326	339	321	249	286	403	328	သ တို့	341	282	3334 1	~1	Number	At At	TOTAL DEATHS REGISTERED IN THE DISTRICT.
17 3	19.5	20	19.1	14.8	17.1	24.1	19.6	23.1	20.4	16 9	20	œ	Rate*	At all Ages	CERED
											 	9	tions in the District	Public	Total Deaths
] []	10	Institu- ions in the District	residents registe'd	Deaths of Non-
16	9	16	14	18	C	10	4	10	+	6	ಬ	11	Institutions be- yond the District	residents Reside'ts registe'd registe'd	Deaths
307	3335 3357	355	335	267	292	413	332	395	345	288	337	12	Number	the District.	Ag
18.2	20	21.1	19.9	15 9	17.4	24.8	19.9	23.7	20.7	17.2	20.2	13	Rate*	istrict.	ths at all

Total population at all ages 16.661; Number of inhabited houses 3204; Average number of persons per house 5; at Census of 1901. Union Workhouse. Durham, County Hospital, Durham, Lady Eden Hospital, Bishop Anckland County Lunatic Asylum, Sedgefield. Other Institutions, the deaths in which have been distributed among the several localities in the District—Isolation Hospital. Merrington Lane. ——Is the Union Workhouse within the District? No. lastitutions outside the District receiving sick and infirm persons from the District -Union Workhouse, Bishop Auckland,

(II) Vital Statistics of separate Localities in 1906 and previous years. Name of District—Spennymoor Urban.

RD	Deaths under 1 year.	25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	48
Тирное Ward	Deaths at all Ages.	135 107 107 140 140 164 124 133 133 135 135	135
ЭНОЕ	Births registered.	250 250 250 250 250 250 250 250 250 250	278
Tui	Population esti- mated to middle of each year.	7864 7864 7864 7864 7864 7840 7840 7858 7871 7871 7884 7896	7868
WARD.	Deaths under 1 year.	25 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	25 2
L W	Deaths at all Ages.	58 53 51 51 51 51 51 51 51 51 51 51 51 51 51	61
YHIL	Births registered,	133 102 128 128 119 111 113 115	121
FERRYHILL	Popuration esti- mated to middle of each year,	3019 3019 3019 3019 2705 2777 2782 2783 2793	2878
ARD	Deaths under 1 year.	4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	49
)R W	Deaths at all Ages.	141 1140 1140 1140 1140 1140 1150 1150 1	961
умос	Births regisrered.	222 223 247 277 224 224 224 24 24 259	246
SPENNYMOOR WARD	Population esti- mated to middle of each year.	6973 6973 6973 6973 6052 6056 6,76 6086 6097	6546
ICT.	Deaths under 1 year,	1118 104 141 110 110 80 80 80 1111	121
ISTR	Deaths at all Ages.	288 288 345 395 267 293 355 355 355	335
LN D	Births registered.	620 632 652 667 667 609 609 628 629 629	645
Urban District,	Population esti- mated to middle of each year,	16665 16665 16665 16665 16665 1672 16729 16729 16729	16697
Name of Localities	YEAR.	1896 1897 1898 1899 1900 1902 1903 1904 1905 Average of	to 1905

Cases of Infectious Diseases notified during the year 1906.

Name of District-Spennymoor Urban.

		Cases	Total Cases notified in each Locality.							
Notifiable Disease	Atall		A	t Ages	unymoor Ward.	yhill rd:	Tudhoe Ward.			
	Ages	Un der	1 to 5.	5 to 15	15 to 25	25 to 65	65 and upw'd.	Spennymoor Ward.	Ferryhill Ward	Tud
Small-pox										†
Cholera			• • • • • • • • • • • • • • • • • • • •		. • • • • • • • •			• • • • • •		
Diphtheria	21		7	11	3	••••••		13	2	6
M'branousCroup								• • • • • •	•••••	• • • • • • •
Erysipelas	11			2	5	3	1	3	4	4
Scarlet Fever	19		7	11	1			14	2	3
Typhus fever			• • • • •		••••••	•••••		• • • • • • •	• • • • • • •	•••••
Enteric fever	13		2	1	6	4		6	3	4
Relapsing fever			*****	• • • • • •	••••	•••••		• • • • • •		
Continued fever	•••••			•••••	• • • • • • •	••••		* * . * * * *		
Puerperal fever	1			•••••	1			• • • • •		1
Plague										
Totals	45		16	25	16	7	1	36]]	18

No. of Cases removed to Hospital from each Locality:—
Spennymoor Ward—Diphtheria 8; Scarlet fever 12; Enteric fever 6; Total—26.
Ferryhill Ward—Diphtheria 2; Scarlet fever 2: Enteric fever 3; Total—7.
Tudhoe Ward—Diphtheria 3; Scarlet fever 3; Enteric fever 3; Total—9.
Isolation Hospital—Spennymoor Urban District Council's Hospital, Ferryhill Ward.

Causes of, and Ages at, Death during Year 1906.

Name of District-Spennymoor Urban.

Causes of Death.	of	Resi	dent	the subsequent	of r long iti	hs at a resident ing to es who ring in the d	Deaths in Pub- lic Institutions.				
	All ages	_	1 & und 5	5 & und. 15		25 & und 65	65 & up- wds	2 2	F'hill Ward.	Thoe Ward.	Deat lic In
Small-pox Measles				A. de la company		<u> </u> 		A RYPO, TICKER DESCRIPTION OF			
Scarlet fever Whooping-cough	7	5	2			ī	i.	3		4	
Diphtheria and membranous eroup Croup	2 2	1	1	1				1	1]	
Typhus Fever Enteric	.5	•	1		1	1			2	_	1
(other continued Epidemic influenza Cholera	1					1				1	
Plague Diarrhœa Enteritis	48	32	11 2			3	$\frac{2}{1}$	28 1	4	$\frac{16}{2}$	
l'nerperal fever Erysipelas Other septic diseases Phthisis	$\begin{vmatrix} 1 \\ 22 \end{vmatrix}$		$\frac{1}{2}$	1	6	13	ž	1 8	4	10	
Other tubereular diseases	9	1	3	3	1	1		2	3	4	
Cancer, malignant disease Bronchitis Pneumonia	$\begin{bmatrix} 10 \\ 19 \\ 15 \end{bmatrix}$	$\begin{bmatrix} 4 \\ 3 \end{bmatrix}$	4 7	1	1	6 3 3	4 8	4 7 5	$\begin{bmatrix} 6 \\ 5 \end{bmatrix}$	6 6 5	
Pleurisy Other diseases of Respiratory organs	1					1		1			
Alcoholism Cirrhosis of liver	3					2	1	2	1		
Venereal diseases Premature birth	16	$\frac{1}{15}$	1	}		[$\begin{bmatrix} 1 \\ 5 \end{bmatrix}$	$3\frac{1}{1}$	8	
Diseases and accidents of parturition Heart diseases	3 12					3 8	4	4	$\begin{bmatrix} 2 \\ 2 \end{bmatrix}$	$\begin{bmatrix} 1 \\ 6 \end{bmatrix}$	
Accidents Suicides Atrophy & Marasmus	$\begin{bmatrix} 11 \\ 3 \\ 13 \end{bmatrix}$	$\begin{bmatrix} 1 \\ 9 \end{bmatrix}$	1 4	1	$\begin{bmatrix} 2 \\ 1 \end{bmatrix}$	$\begin{bmatrix} 6 \\ 2 \end{bmatrix}$		$\begin{bmatrix} 6 \\ 1 \\ 5 \end{bmatrix}$	$\frac{1}{3}$	5 1 5	
Meningitis Convulsions	14 14	$\begin{bmatrix} 5 \\ 9 \end{bmatrix}$	4 5	4	1			4 8	$\begin{vmatrix} 4 \\ 2 \end{vmatrix}$	6 4	
Congenital Defects All other causes	$\begin{vmatrix} 13 \\ 62 \end{vmatrix}$	13	3	1	3	22	33	$\begin{bmatrix} 3\\26 \end{bmatrix}$	10	$\begin{bmatrix} 6 \\ 26 \end{bmatrix}$	-
All causes	307	99	52	12	16	75	53	126	57	124	1

(V) Infantile Mortality during the Year 1906. Spennymoor Urban District.

Deaths from stated Causes in Weeks and Months under One Year of Age.

CAUSE OF DEATH.	TANK TO THE PROPERTY OF THE PR	Under I Week.	1-2 Weeks.	23 Weeks.	3-4 Weeks.	Total under 1 Month.	1-2 Months.	2-3 Months.	3-4 Months.	4-5 Months.	5.6 Mourhs.	6-7 Months.	7-8 Months.	8 9 Months.	9-10 Months.	10-11 Months.	11-12 Months.	under One Year. Total Deaths
7 77 (*6)	Array More and														;			
Diarrhæa, all forms Enteritis, Muco-enteritis, Gastro-enteritis, Gastro-intestinal Catarrh Premature Birth Congenital Defects Injury at Birth Want of Breast milk,		13	1	1 3	and the state of t	1 15 7	The state of the s		3 4	2	2	1	2		1 2	õ	1 4	1 5 25 6 15 13
Starvation Atrophy, Debility, Marasmus Tuberculous Meningitis Tuberculous Peritonitis: Tabes Mesenterica Other Tuberculous Disease]	2		1	1	2	2			1	9
Erysipelas Syphilis Rickets Meningitis Convulsions Bronchitis Laryngitis Pneumonia Suffocation, overlying Othercauses		4	1	1		C			1	1 1	1	1	The same of the sa	1 2	1	1	Paral	1 5 9 4 3
		20	2	2 6	1	29	5	7	11	7	4	4	5	6	5	9	7	99

Population estimated to middle of 1906—16814.

Births in the year: -Legitimate 635.

Deaths in the year of legitimate infants: -99.

I. PÚBLIC H	EALTH	ACTS.		Number of aformal written Notices by Inspector.	Number of Formal Notices by order of Authority.	Number of Nuisances abated after Notice.
Dwelling houses						
and	Structura		ects	23	12	28
Schools.	Overcrov	vding		7	3	7
Lodging-houses	•••					
Dairies and Milks	liops					
†Cowsheds	•••			4	99	101
Bakehonse						
#Slaughter-house					79	79
*Ashpits and Priv	ies			130	65	120
Deposits of Refuse	e and Mai	aure		4		4
Waterclosets	• •			3		* 3
Defective Yard Pa	rving			36	9	36
House Defec	ctive traps	: [S	Sewers			*/(/
TITUTES I THE TO	isconnecti	ions fro	$_{ m m}$	53	17	62
Drainage Other	r Faults	•••		,		02
Water Supply		• • •				
Pigsties	• • •				The state of the s	
Animals Improper	ly Kept			2		2
Offensive Trades	,,			_		_
Smoke Nuisances						
Other Nuisances	• • •			20	6	22
Totals			- '-	282	290	461

^{† 95} of these Notices were for Limewashing. ‡ These were for Limewashing. * 255 Ashpits replaced by Earthclosets or Waterclosets.

II. Housing of the Working Classes Act, 1890.	Number	Remarks.
Formal Notices served Dwellings dealt with Dwellings made habitable after formal notice Closing Orders applied for Closing Orders granted by Magistrates Dwellings permanently closed	4 4 4	Several houses have been made habitable where notices were served in 1905.
III. Factory and Workshop Act, 1901. Action taken, Notices served, &c	-	These have been inspected.
Nater, Food and Drugs. Samples of Water taken for Analysis ,, condemned as unfit for use Seizures of Unwholesome Food Convictious for exposing or selling Unwholesome Food Samples of Food and Drugs taken for Analysis ,, found Adulterated	3	Not satisfactory.
V. Precautions against Infectious Disease. Lots of Infectious Bedding stoved or destroyed Houses disinfected after Infectious Disease Schools do do do do Prosecutions for exposure of infected persons or things Convictions for do do do	10 10	All Schools have been fumigated during the holidays.







